

Claim 3 (Original): An information processing apparatus according to claim 1, wherein said transmission means transmits said code information to said recording apparatus by use of an infrared signal.

Claim 4 (Original): An information processing apparatus according to claim 1, wherein said control information includes broadcast channel information, broadcast date, broadcast start time, and recording end time of said program.

Claim 5 (Currently Amended): An information processing method for use in a system including a personal computer configured to access the recording apparatus, an information processing apparatus, and a recording apparatus, comprising:

in a control device in the information processing apparatus,

under user control acquiring control information, without accessing the personal computer, for controlling preset recording of a program by accessing a remote program information providing server through the internet based on a user request to access the remote program information providing server, and

converting contents described in said control information acquired by said acquiring into code information for setting said program preset recording to the recording apparatus, which is remote and separate from the control device; and

transmitting said code information obtained by said converting to said recording apparatus under control of said control device;

in the recording apparatus, receiving said code information from said transmission means, confirming whether said code information properly sets said program preset recording, and displaying whether said program preset recording is proper or improper.

Claim 6 (Currently Amended): A program storage medium storing a computer-readable program for use in a system including a personal computer configured to access the recording apparatus, an information processing apparatus, and a recording apparatus, said program storage medium comprising:

in a control device in the information processing apparatus,

under user control acquiring control information, without accessing the personal computer, for controlling preset recording of a program by accessing a program information providing server through the internet based on a user request to access the remote program information providing server, and

converting contents described in said control information acquired by said acquiring into code information for setting said program preset recording to the recording apparatus, which is remote and separate from the control device; and transmitting said code information obtained by said converting to said recording apparatus under control of said control device;

in the recording apparatus, receiving said code information from said transmission means, confirming whether said code information properly sets said program preset recording, and displaying whether said program preset recording is proper or improper.

Claim 7 (Currently Amended): An information processing system, comprising:

a recording apparatus;

a personal computer configured to access the recording apparatus;

an information processing apparatus comprising:

a controller configured to,

under user control acquire control information, without accessing the personal computer, for controlling preset recording of a program by accessing a remote program information providing server through the internet based on a user request to access the remote program information providing server, and

convert contents described in said acquired control information into code information for setting said program preset recording to a remote recording apparatus separate from the controller; and

a transmitter configured to receive said code information from said controller and to transmit said received code information to said recording apparatus under control of said controller;

the recording apparatus receiving said code information from said transmission means, confirming whether said code information properly sets said program preset recording, and displaying whether said program preset recording is proper or improper.

Claim 8 (Previously Presented): An information processing apparatus according to claim 7, wherein said code information acquired by the controller is G-code information.

Claim 9 (Previously Presented): An information processing apparatus according to claim 7, wherein said transmitter transmits said code information to said recording apparatus by use of an infrared signal.

Claim 10 (Previously Presented): An information processing apparatus according to claim 7, wherein said control information includes broadcast channel information, broadcast date, broadcast start time, and recording end time of said program.

### REMARKS

Favorable reconsideration of this application is respectfully requested.

Claims 1-10 are pending in this application. Claims 1-10 were rejected under 35 U.S.C. §103(a) as unpatentable over U.S. patent 6,401,059 to Shen et al. (herein "Shen") in view of U.S. patent 6,208,799 to Marsh et al. (herein "Marsh"). That rejection is traversed by the present response as discussed next.

Each of the independent claims is amended by the present response to clarify features recited therein. Specifically, independent claim 1 now additionally recites "a personal computer configured to access the recording apparatus", and clarifies the information processing apparatus including the user controlled acquisition means for acquiring "without accessing the personal computer" control information for controlling preset recording of a program by accessing a remote program information provider server through the Internet.

The claimed features are believed to be clear for example from Figure 1 in the present specification. As shown therein an information processing system includes a personal computer 5 that can access a recording apparatus 12. Further, an information processing apparatus such as a phone 1 or PDA2 can access a remote program information providing server 8 through the Internet, without accessing the personal computer 5. That is, that phone 1 and PDA2 do not need to use the personal computer 5 as an intermediary for accessing a remote program information providing server 8 through the Internet.

The claims as written are believed to clearly distinguish over the applied art.

The claims are directed to an information processing system that can make it easier to program a recording device. With respect to Figure 1 in the present specification as a non-limiting example, an information processing apparatus such as a computer 5, cell phone 1, or PDA 2 can operate to program a VCR 12 so that the VCR 12 records a specific program at a specific time. Such information processing apparatuses 1, 2, 5 can themselves, under a user

control, access a server, such as server 8, which stores an electronic program guide (EPG). Such information processing apparatuses 1, 2, 5 under a user control can access the EPG on the server 8 through the internet and download information of a program desired to be recorded, which information can then be provided to a remote recording device 12 so that the recording device can perform the recording. Such an operation provides an enhanced and simplified way for a user of the information processing apparatuses 1, 2, 5 to select a program to be recorded and to have the recording device 12 record the selected program.

According to features in the claimed invention, an information processing apparatus itself acquires, without needing an intermediary of a personal computer, through the internet and under a user control, the control information for controlling recording of a program from a remote program information providing apparatus, converts that information into code information, and transmits the code information to the remote recording apparatus. Further, that remote recording device 12 confirms whether the information from the information processing apparatus properly sets a program preset recording and displays whether the program preset recording is proper or improper.

The features as recited in the claims as written are believed to clearly distinguish over Shen.

Shen is directed to a method and system for using a personal digital assistant (PDA) as a remote control, and to that extent Shen discloses utilizing that PDA to program a VCR to record a selected TV program. However, Shen differs from the claims in the following aspects.

With reference to Figure 2 Shen discloses the PDA 210 only being able to access a desktop computer 202 to obtain codes and information to control the VCR. That is, in Shen the PDA 210 does not access the web page for TV program information 208. Instead, in Shen only the desktop computer 202 accesses the web page for TV program information.

The claims as written have a different operation than in Shen. Specifically, in the claims as written the information processing apparatus itself, “without accessing the personal computer” as now clarified in the claims, will access a remote program information providing server through the internet. Again with reference to Figure 1 in the present specification as a non-limiting example, the phone 1 or PDA 2 itself can access the remote program information providing server 8 through the internet 7. That operation is not possible in Shen as in Shen only the desktop computer 202 can perform that function. Shen operates on a different basis than the claimed invention in that Shen relies on the PDA 210 accessing the desktop computer 202 to receive a TV program information. The claimed inventions allow a different operation in allowing a device such as a cell phone or a PDA to directly access a program information providing server through the internet itself.

In such ways, the claims as written are believed to distinguish over Shen.

Moreover, no teachings in Marsh cure the above-noted deficiencies in Shen, and in that respect applicants note that Marsh was only cited to disclose confirming whether code information is proper and displaying whether a program recording is proper or improper.

In view of the present response applicants respectfully submit the claims as written distinguish over Shen in view of Marsh.

As no other issues are pending in this application, it is respectfully submitted that the present application is now in condition for allowance, and it is hereby respectfully requested that this case be passed to issue.


Respectfully submitted,

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Serial No. 10/016,765

In the matter of the Application of: Tatsuo KAIZU, et al.

For: INFORMATION PROCESSING APPARATUS AND METHOD, AND  
PROGRAM STORAGE MEDIUM

Due Date: 08/04/07

The following has been received in the U.S. Patent Office on the date stamped here

- ☐ Request for Continued Examination (RCE)
- ☐ Credit Card Form for \$790.00
- ☐ Dep. Acct. Order Form
- ☐ Amendment filed concurrently w/RCE

